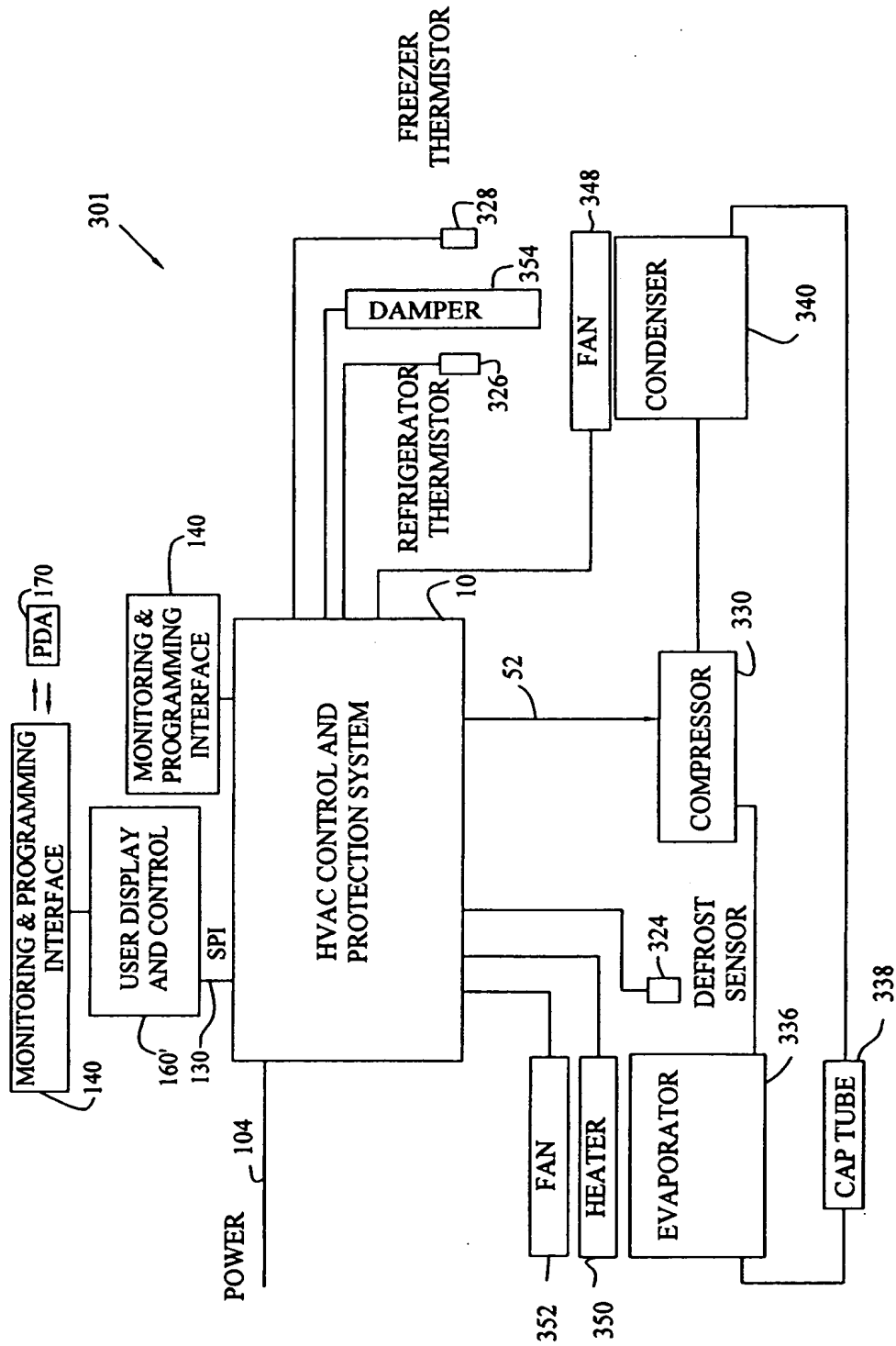
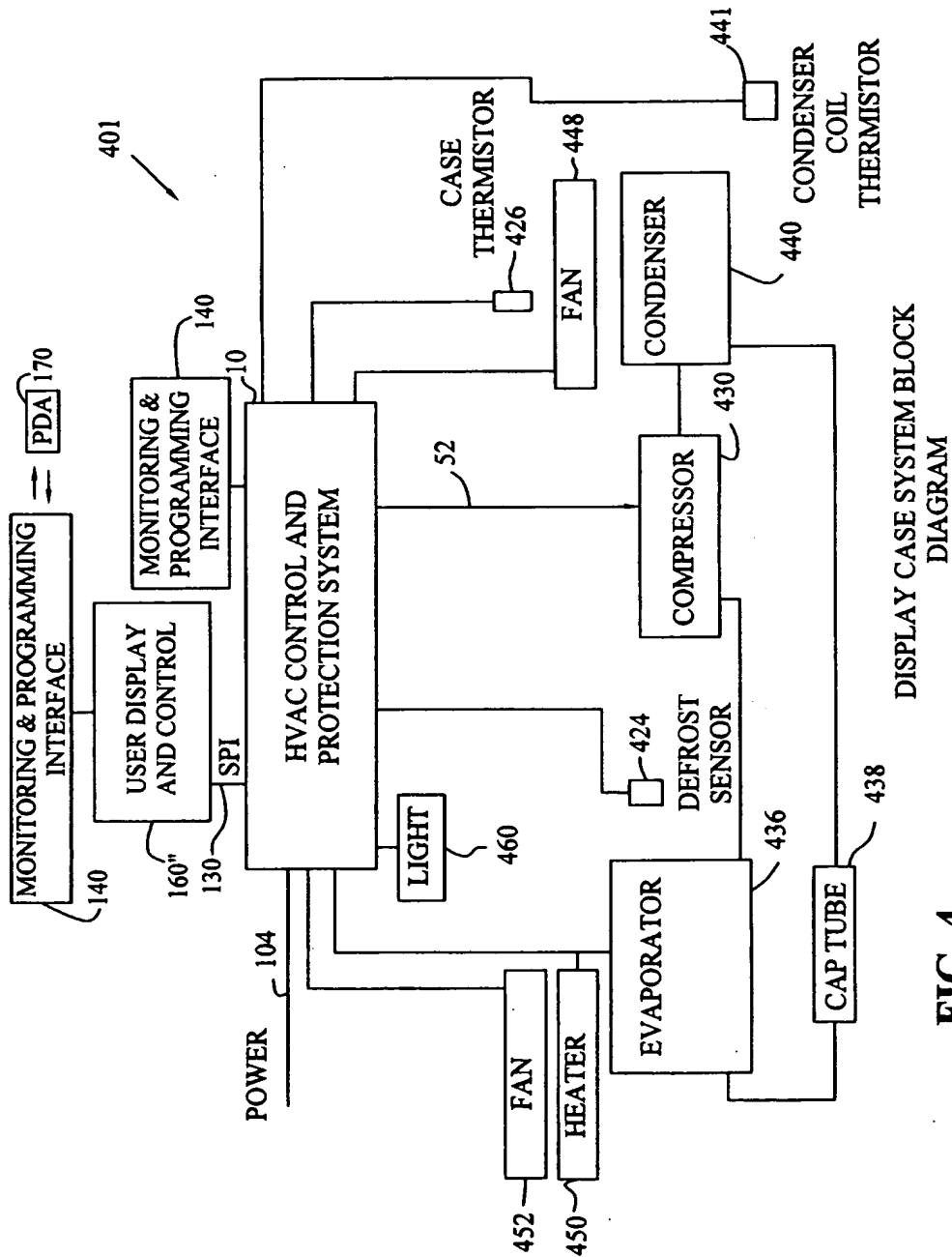


FIG. 2



REFRIGERATOR SYSTEM BLOCK  
 DIAGRAM

FIG. 3



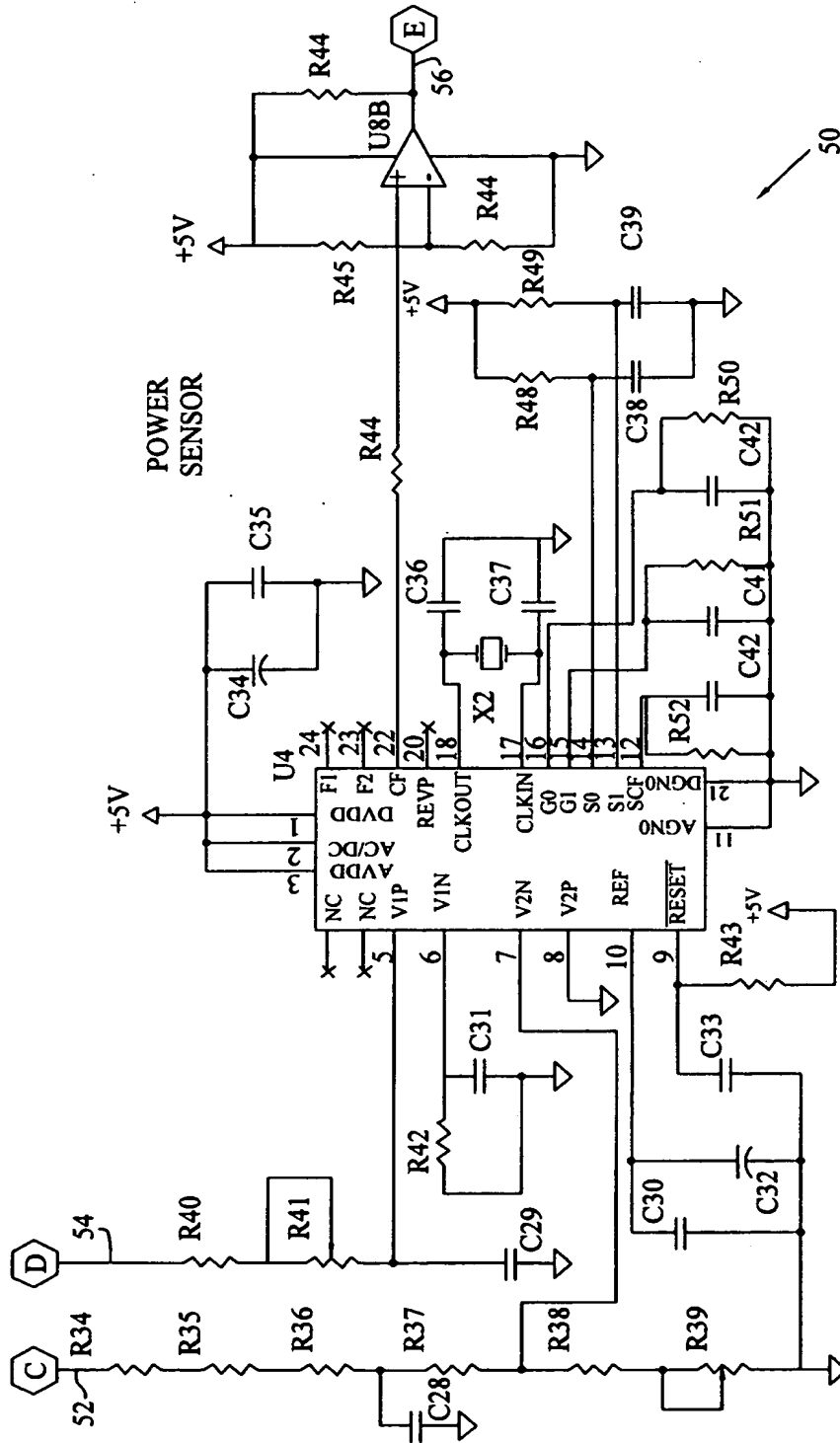


FIG. 5

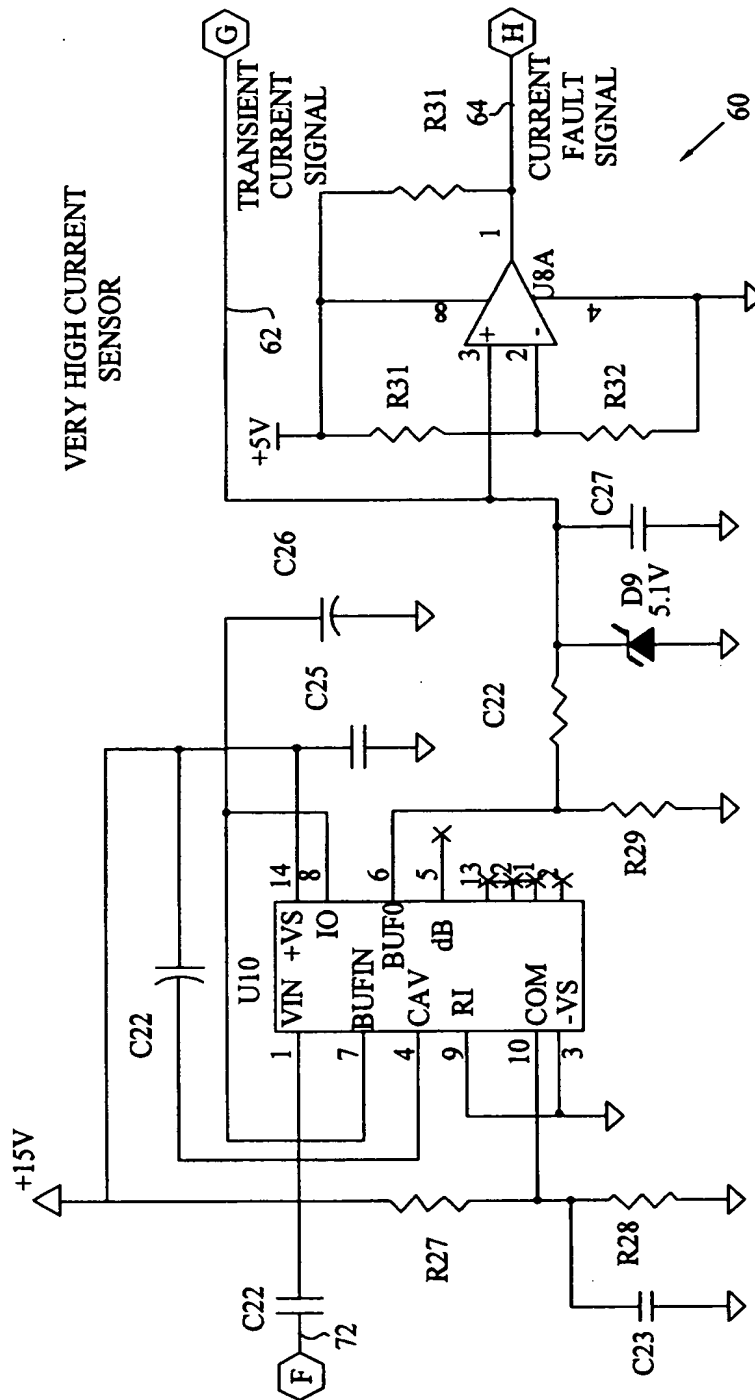
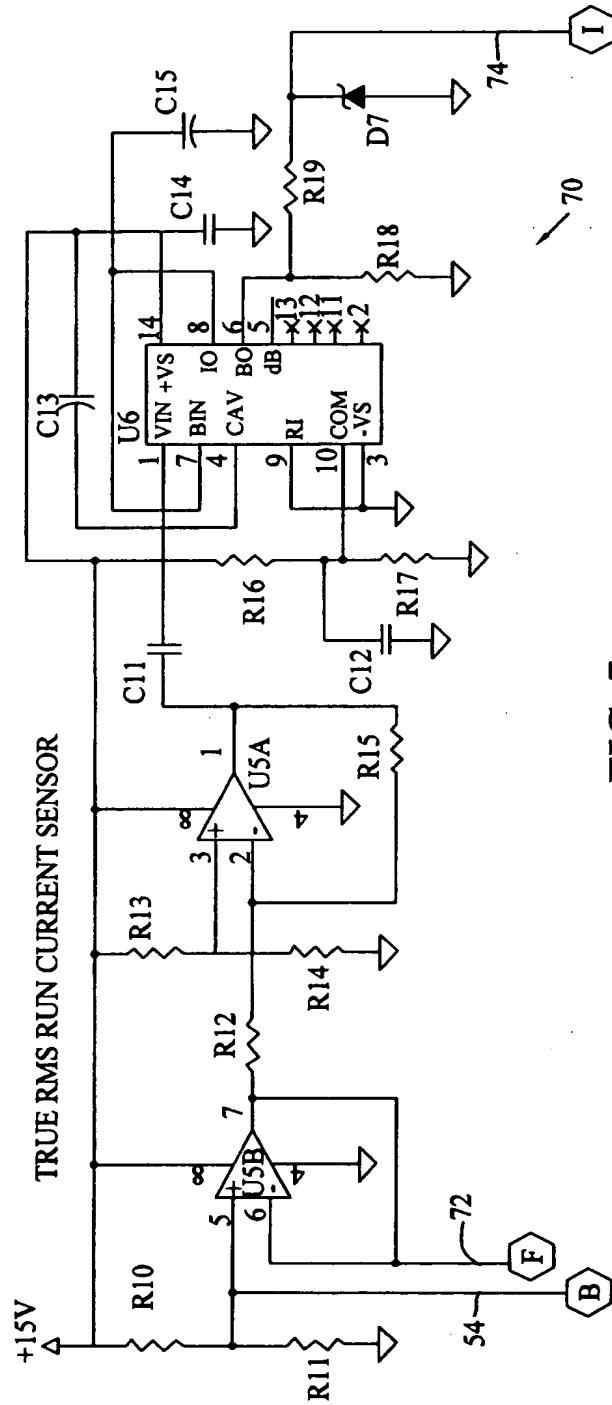


FIG. 6



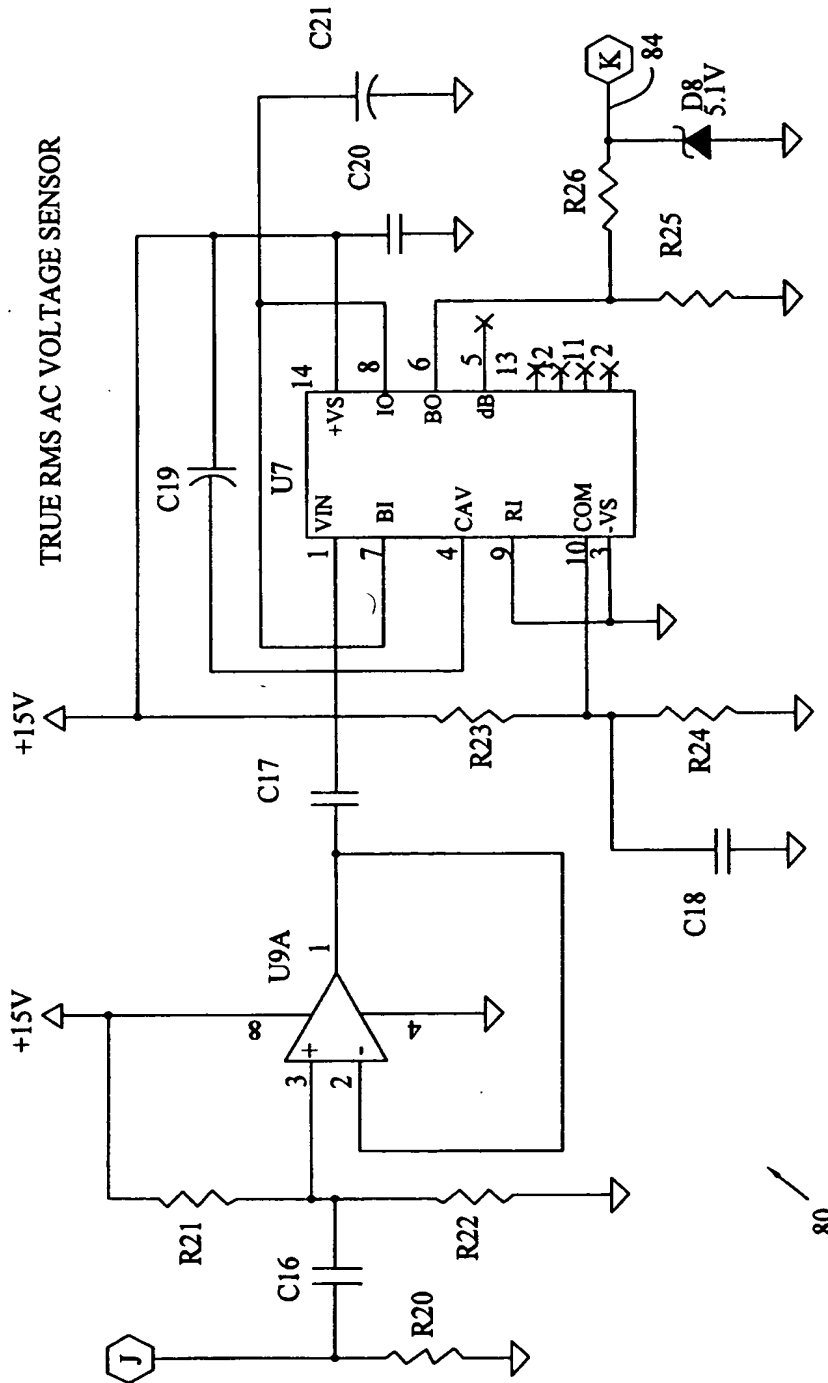
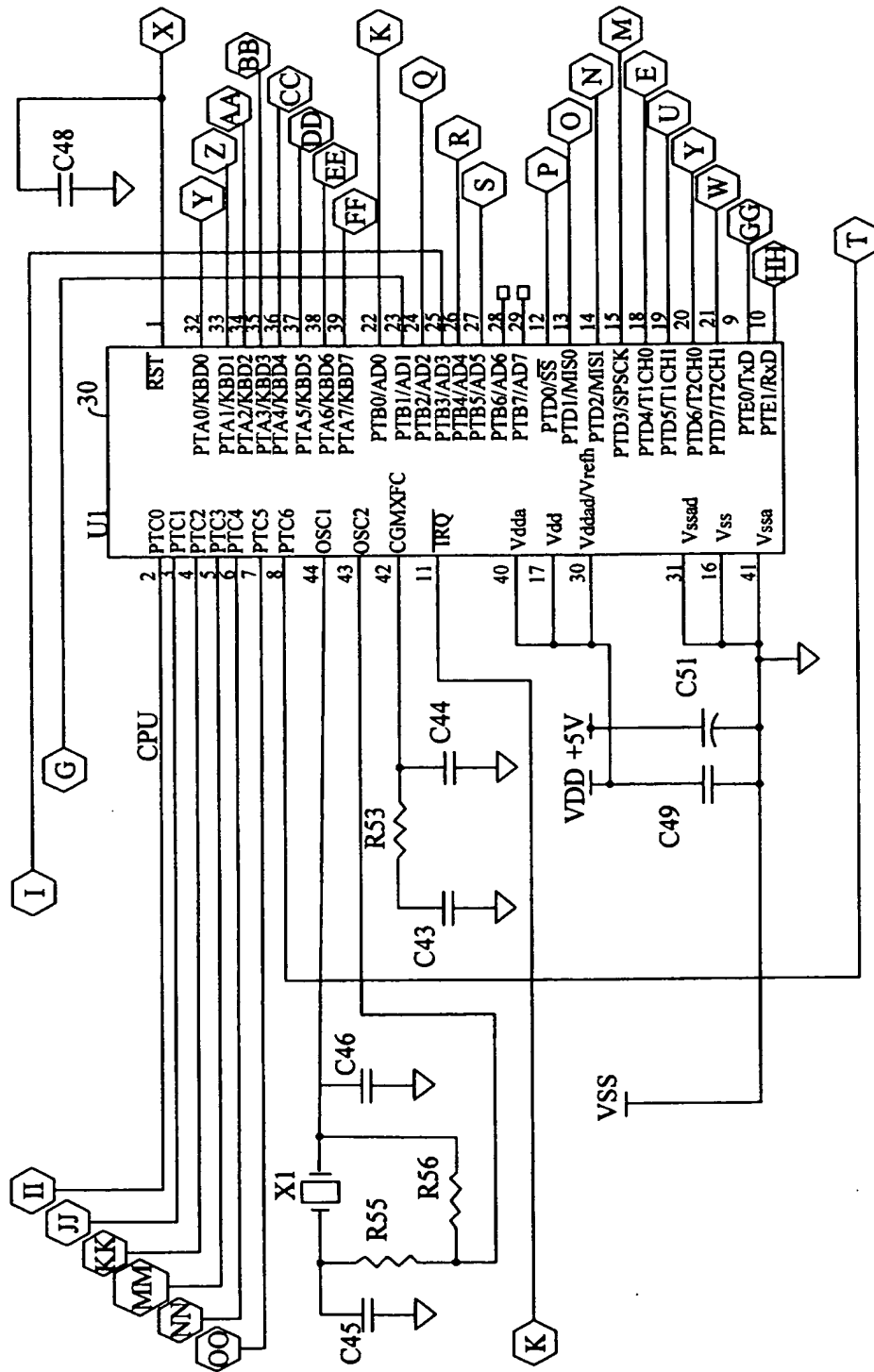
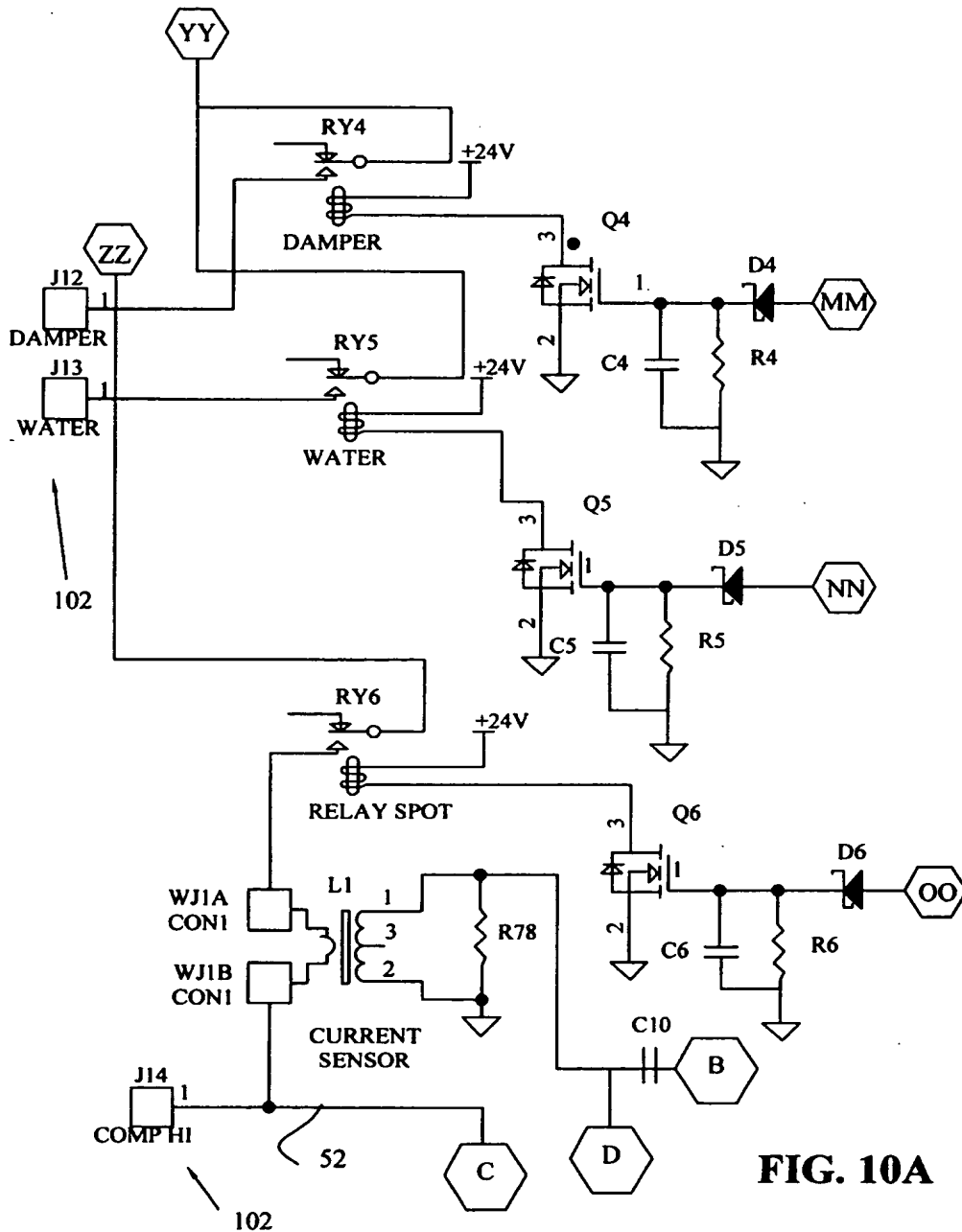


FIG. 8







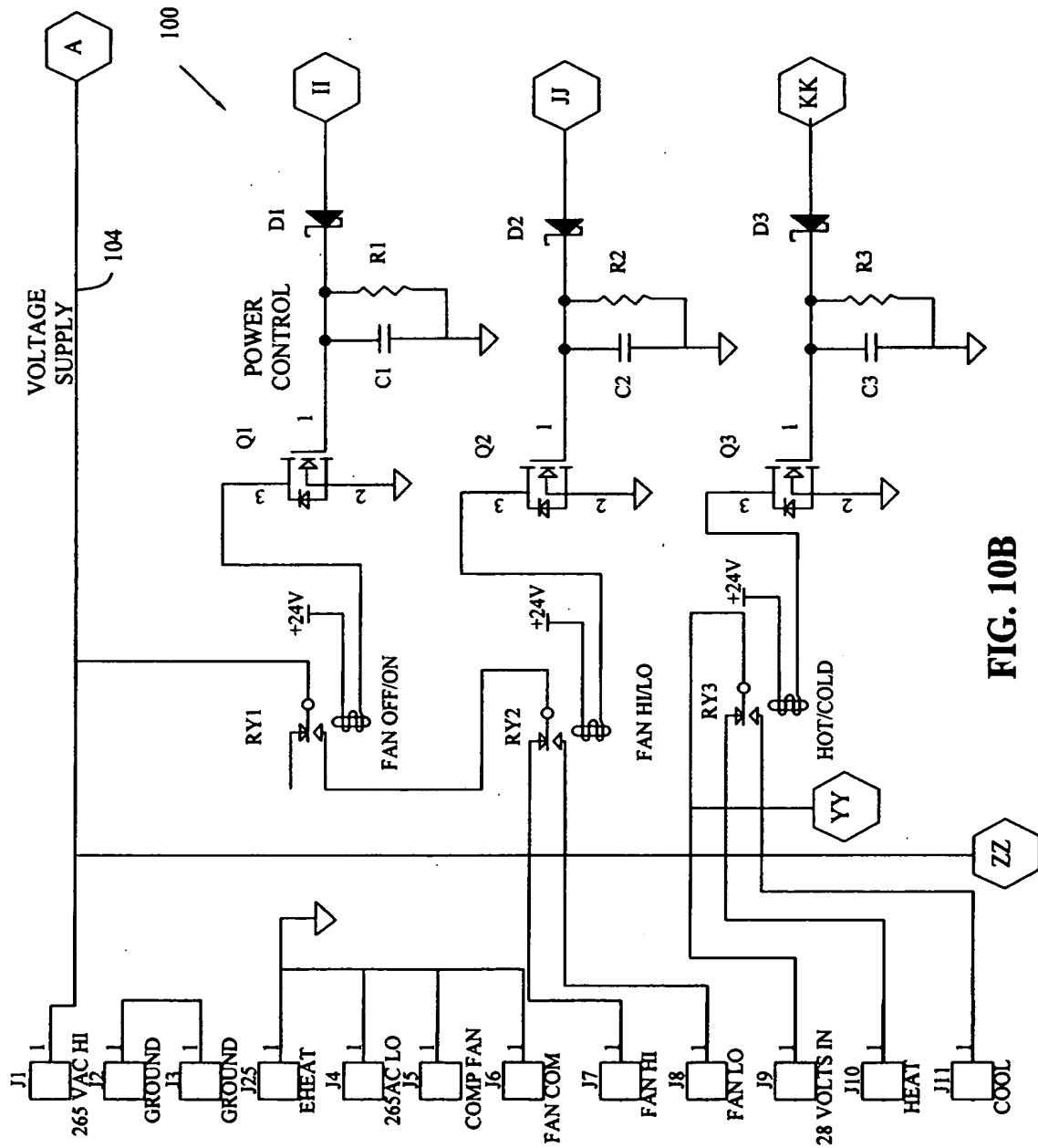


FIG. 10B

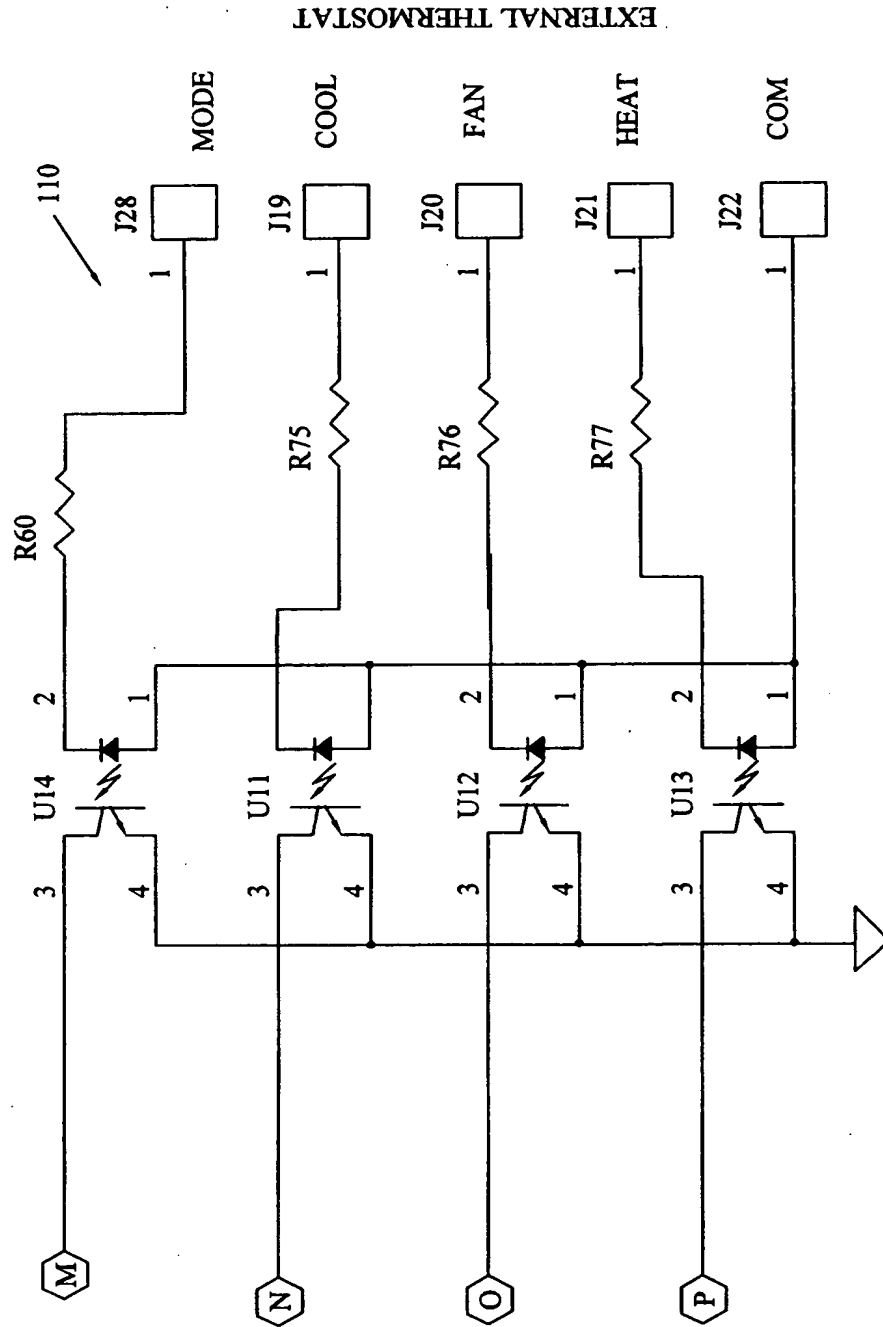


FIG. 11

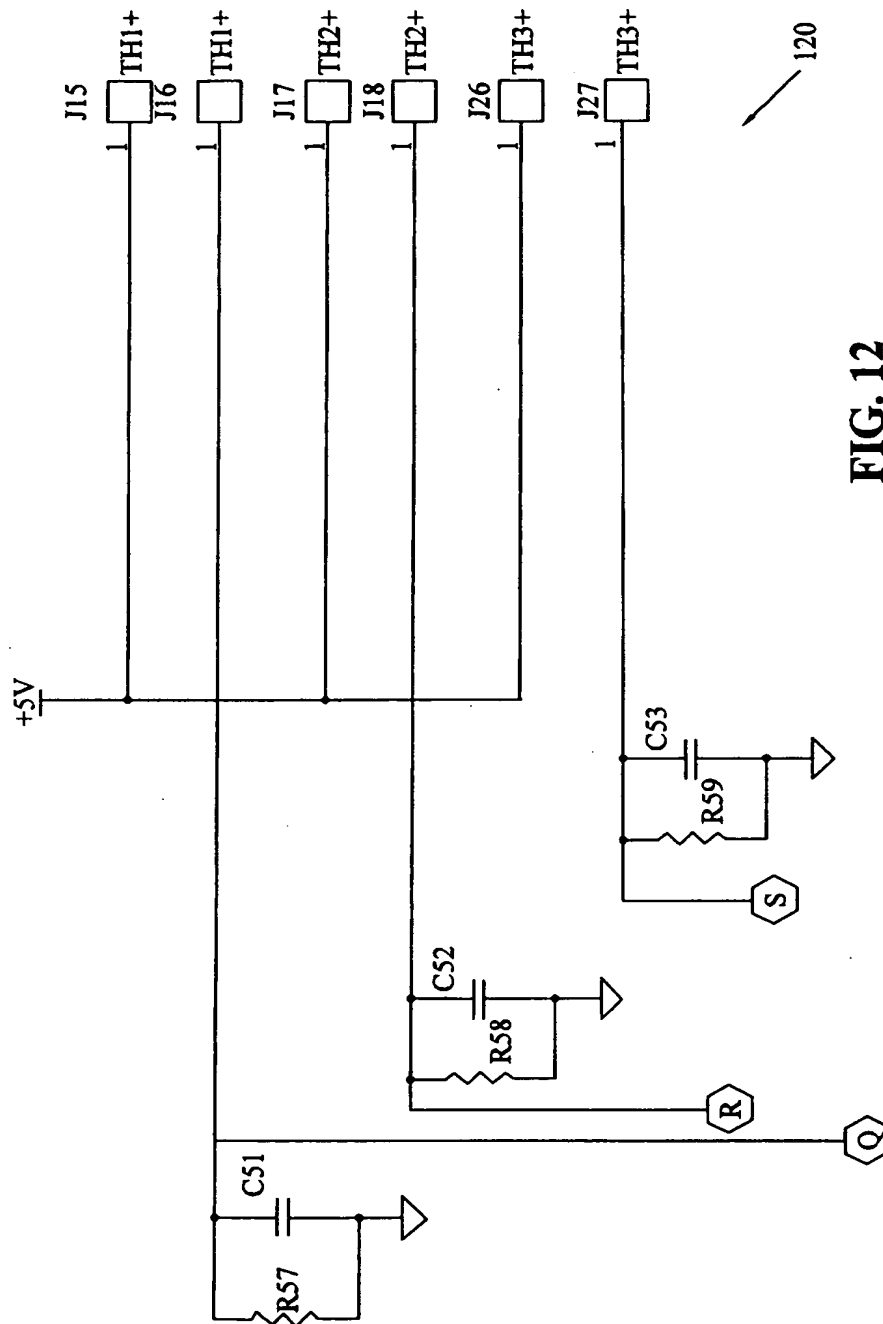


FIG. 12

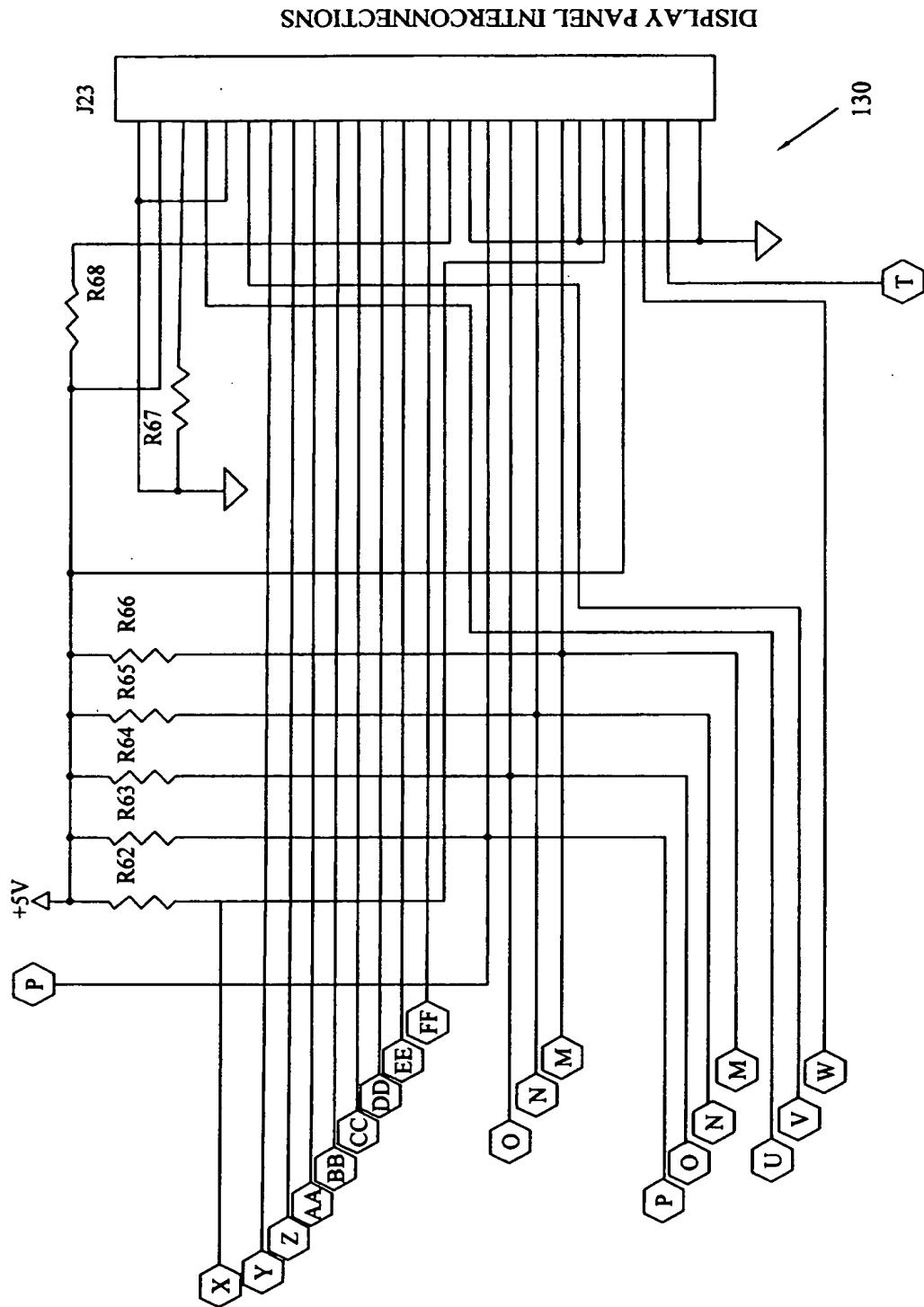


FIG. 13

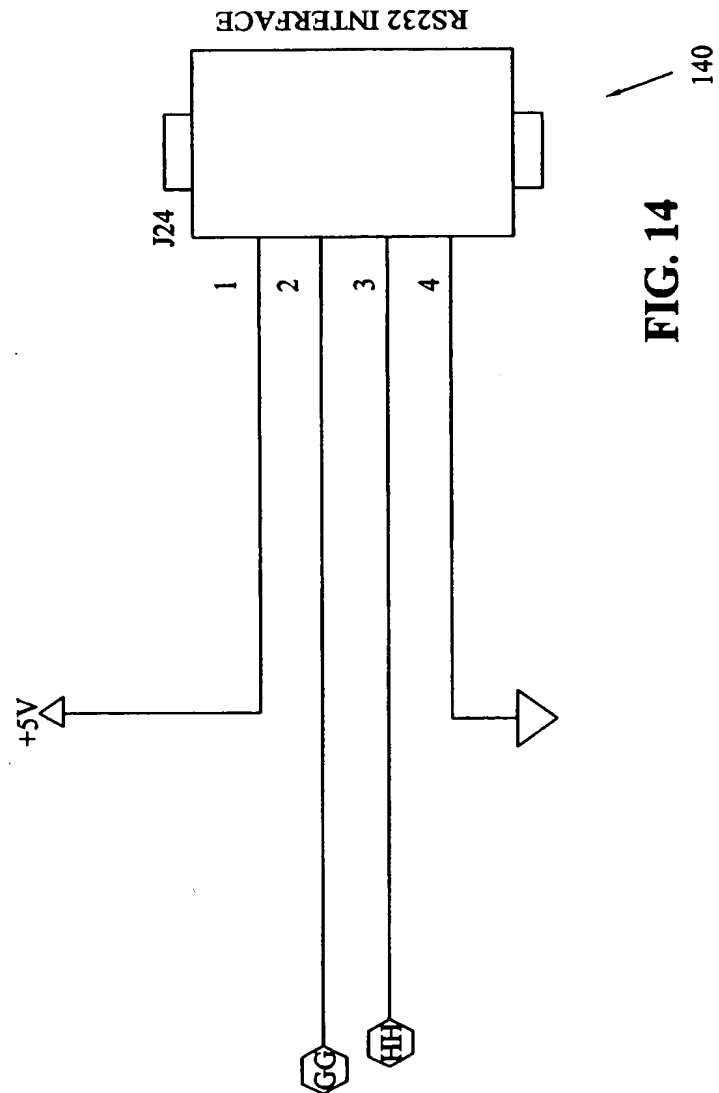


FIG. 14

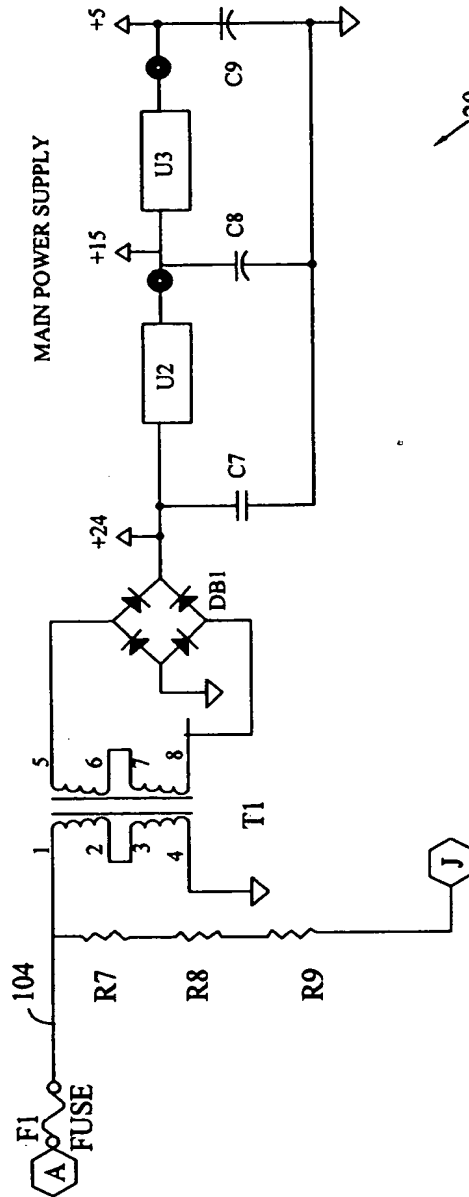
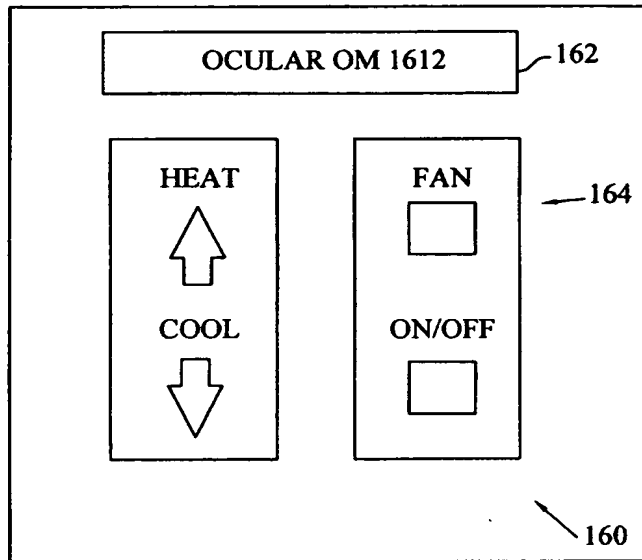


FIG. 15





# DISPLAY AND CONTROL PANEL



**FIG. 16B**

| SET POINT FORM <span style="float: right;">✕</span>                                                                                                                                                                                                                                                      |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| HIGH VOLTAGE TRIP/VAC                                                                                                                                                                                                                                                                                    | <input type="text" value="280"/>  |
| LOW VOLTAGE TRIP/VAC                                                                                                                                                                                                                                                                                     | <input type="text" value="280"/>  |
| MAX STABLIZATION/AMPS                                                                                                                                                                                                                                                                                    | <input type="text" value="9"/>    |
| MAX STABLIZED/AMPS                                                                                                                                                                                                                                                                                       | <input type="text" value="9"/>    |
| MAX START/AMPS                                                                                                                                                                                                                                                                                           | <input type="text" value="30"/>   |
| MAX RUN/WATTS                                                                                                                                                                                                                                                                                            | <input type="text" value="1500"/> |
| MIN RUN WATTS                                                                                                                                                                                                                                                                                            | <input type="text" value="290"/>  |
| MAX START TIME/SEC                                                                                                                                                                                                                                                                                       | <input type="text" value="2"/>    |
| STABLIZATION TIME/MIN                                                                                                                                                                                                                                                                                    | <input type="text" value="16"/>   |
| TRIP TIME/ 1-255 SEC                                                                                                                                                                                                                                                                                     | <input type="text" value="15"/>   |
| DEAD BAND/1-10 DEG F                                                                                                                                                                                                                                                                                     | <input type="text" value="5"/>    |
| FAULT STATUS                                                                                                                                                                                                                                                                                             | <input type="text" value="0"/>    |
| STARTUP DELAY/1-255 SEC                                                                                                                                                                                                                                                                                  | <input type="text" value="10"/>   |
| <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">PROGRAM<br/>SET<br/>POINTS</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">READ<br/>UNIT SET<br/>POINTS</div> </div> |                                   |

**FIG. 17A**

**SET POINT FORM** ☐

|                      |                                |
|----------------------|--------------------------------|
| AC LINE VOLTAGE/VAC  | <input type="text" value="-"/> |
| AC RUN CURRENT/AMPS  | <input type="text" value="-"/> |
| APPARENT POWER/WATTS | <input type="text" value="-"/> |
| REAL POWER/WATTS     | <input type="text" value="-"/> |
| READ TEMPERATURE/F   | <input type="text" value="-"/> |
| SET TEMPERATURE      | <input type="text" value="-"/> |
| SYS STATUS           | <input type="text" value="-"/> |

174

173

**FIG. 17B**

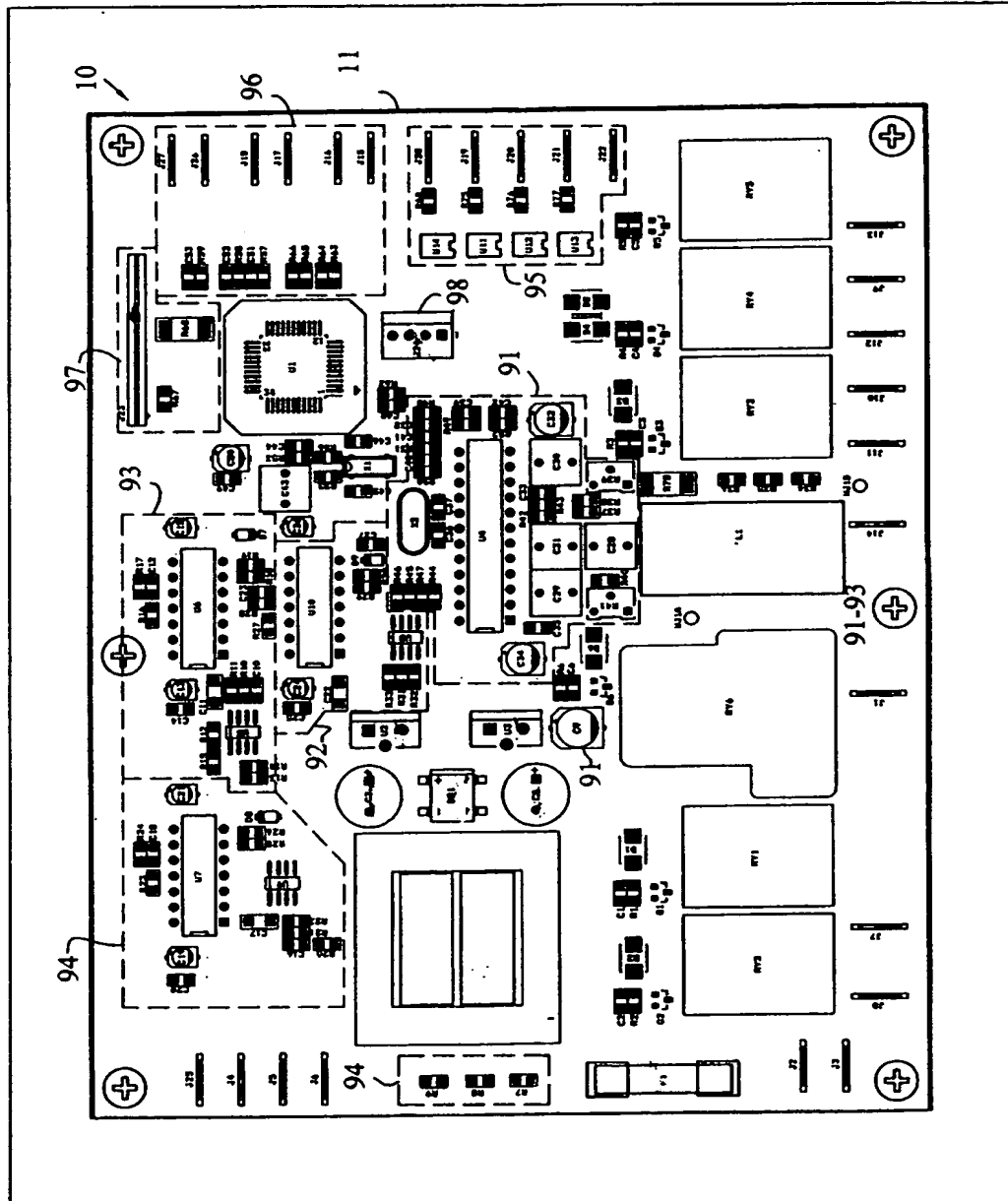
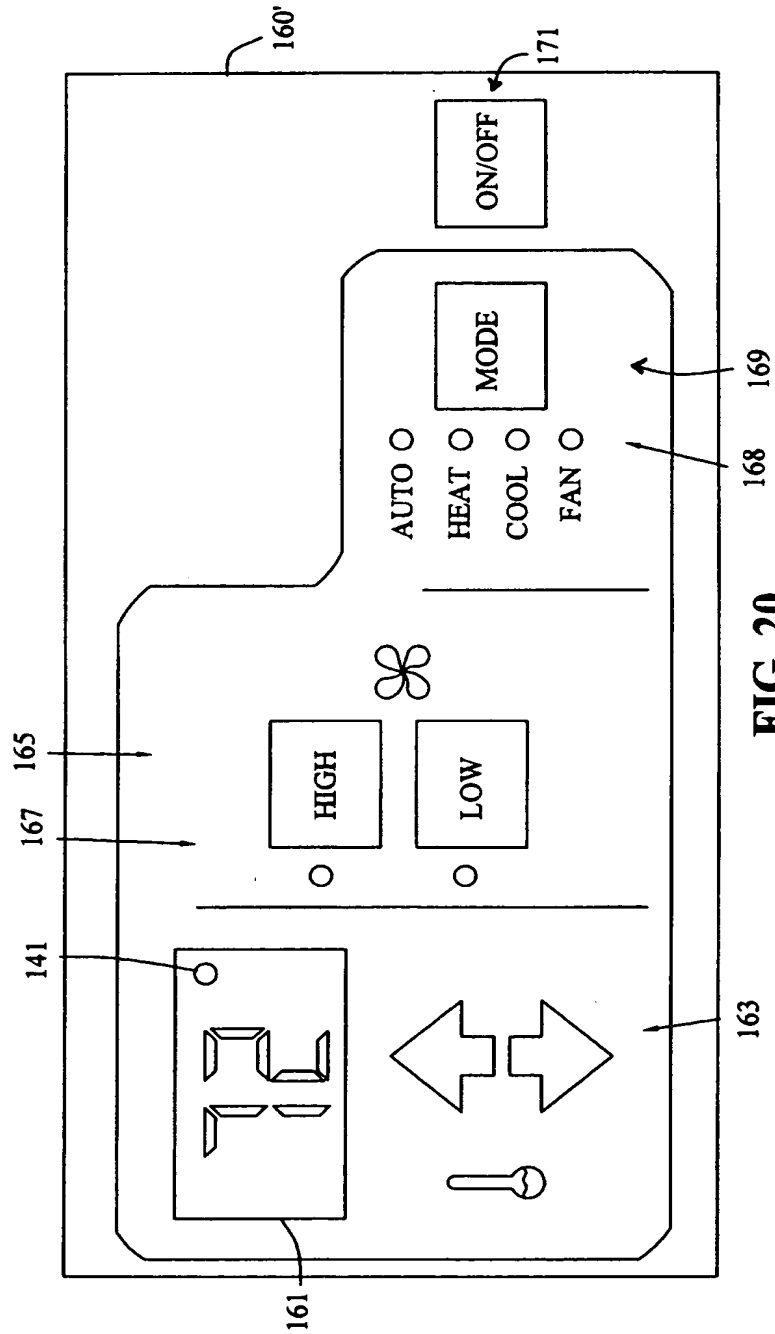


FIG. 18





A screenshot of a software dialog box titled "READ SYSTEM SENSOR" with a close button (X) in the top right corner. The dialog contains several labels and input fields, each with a hyphen "-" as a placeholder value. The labels are: "COMPRESSOR CURRENT", "SET TEMPERATURE", "ROOM TEMPERATURE", "AUX TEMPERATURE", "SELECTED MODE", and "SYS STATUS". Below these is a "REFRESH SENSOR READINGS" button. A bracket on the right side of the dialog is labeled 175, and a bracket at the bottom is labeled 177.

|                    |   |
|--------------------|---|
| COMPRESSOR CURRENT | - |
| SET TEMPERATURE    | - |
| ROOM TEMPERATURE   | - |
| AUX TEMPERATURE    | - |
| SELECTED MODE      | - |
| SYS STATUS         | - |

REFRESH SENSOR READINGS

FIG. 21A

A screenshot of a software dialog box titled "SET POINT FORM" with a close button (X) in the top right corner. The dialog contains several labels and input fields with numerical values. The labels and values are: "POWERUP DELAY 1-255/SEC" (10), "MAX. START TIME/SEC" (2), "MAXIMUM RUN AMPS" (5.0), "TRIP TIME 0-255/SEC" (10), "DEADBAND 0-10 DEG/F" (2), "POWERUP TEMPERATURE" (70), and "POWERUP MODE 0-4" (0). At the bottom are two buttons: "PROGRAM SET POINTS" and "READ UNIT SET POINTS". A bracket on the right side of the dialog is labeled 176, and a bracket at the bottom is labeled 177.

|                         |     |
|-------------------------|-----|
| POWERUP DELAY 1-255/SEC | 10  |
| MAX. START TIME/SEC     | 2   |
| MAXIMUM RUN AMPS        | 5.0 |
| TRIP TIME 0-255/SEC     | 10  |
| DEADBAND 0-10 DEG/F     | 2   |
| POWERUP TEMPERATURE     | 70  |
| POWERUP MODE 0-4        | 0   |

PROGRAM SET POINTS      READ UNIT SET POINTS

FIG. 21B

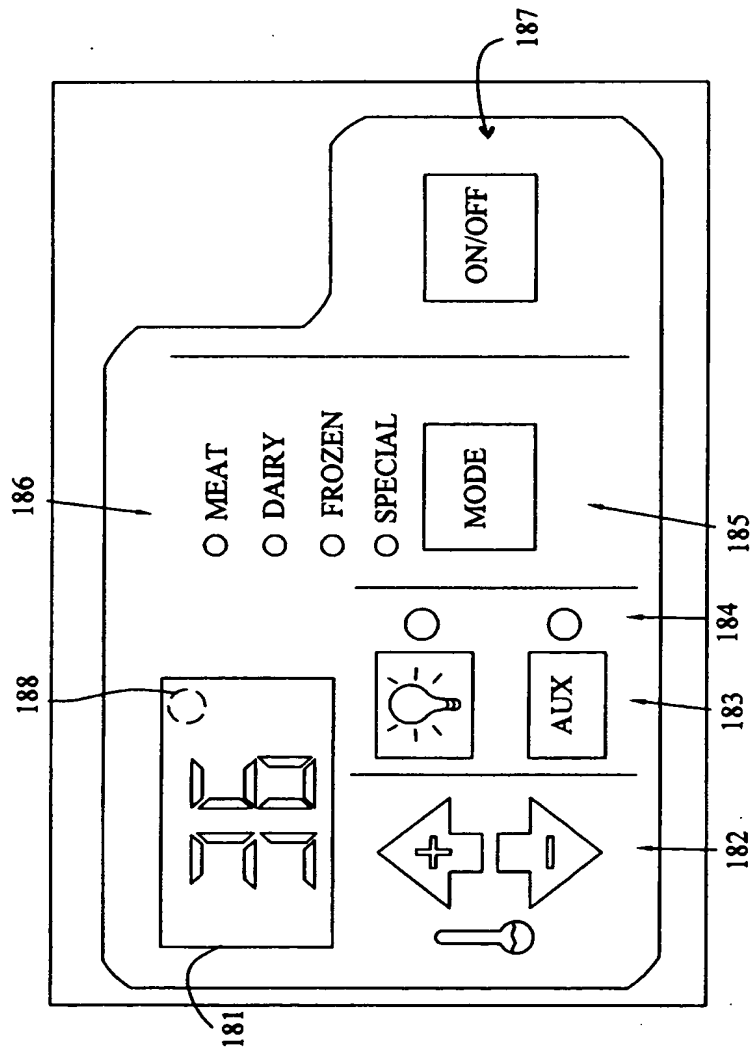


FIG. 22



DISPLAY CASE

COMPRESSOR CURRENT

EVAPORATOR AIR TEMP/F

EVAPORATOR COIL TEMP/F

CONDENSER COIL TEMP/F

OPERATING MODE

CABINET LIGHT

SYS STATUS    AUX LIGHT

-

REFRESH SENSOR READINGS

-

189

192

**FIG. 23A**

11

**DISPLAY CASE SETP...**
X

|          |    |       |    |
|----------|----|-------|----|
| MEAT SP. | 39 | DIFF. | 9  |
| MIN.     | 32 | MAX.  | 50 |

☒ <---MEAT MODE ENABLED

|           |    |       |    |
|-----------|----|-------|----|
| DAIRY SP. | 40 | DIFF. | 9  |
| MIN.      | 32 | MAX.  | 45 |

☒ <---DAIRY MODE ENABLED

|            |     |       |    |
|------------|-----|-------|----|
| FROZEN SP. | -1  | DIFF. | 10 |
| MIN.       | -18 | MAX.  | 32 |

☒ <---FROZEN MODE ENABLED

|             |     |       |    |
|-------------|-----|-------|----|
| SPECIAL SP. | 10  | DIFF. | 6  |
| MIN.        | -20 | MAX.  | 40 |

☒ <---SPECIAL MODE ENABLED

|                       |    |
|-----------------------|----|
| POWERUP DELAY TIME    | 10 |
| COMPRESSOR TRIP TIME  | 60 |
| COMPRESSOR START TIME | 1  |
| MAXIMUM RUN CURRENT   | 9  |
| POWER UP MODE         | 0  |
| DEFROST INTERVALS     | 20 |
| DEFROST DURATION      | 30 |
| TERMINATION TEMP      | 40 |

☒ <---FAN CYCLES WITH COMPRESSOR

☒ <---TIMED & TEMP DEFROST

PROGRAM  
SET POINTS

READ SYS  
SET POINTS

**FIG. 23B**